

Message

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Sent: 8/7/2018 10:11:11 PM
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CC:

Subject:

agenda and materials for Thursday's National Oil and Gas call

Attachments: 01 NatlOandGComm_agenda 20180809_v1.docx; 02 2018-06-14 NOGEC Meeting Notes v1.docx; 03 Texas Point Source oil and gas emission trends.pdf; 04 analysis of piping component counts.pdf

Attached is the agenda and materials for Thursday's monthly National Oil and Gas conference call.

Meeting time: August 9, 2018, 2:00-3:30 PM Eastern Time

Conference code: **Ex. 6 Conference Code**

NOTE: The new conference line system cannot handle everyone calling in to the same number, but local numbers are available and you just use the same conference code. Please use the number for your EPA Region:

	Ex. 6 Conference Line
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Talk to you on Thursday!

Michael Ege
Emissions Assessment Section
Texas Commission on Environmental Quality

Ex. 6

AGENDA (attach. 01)

Subject: Agenda and materials for National Oil and Gas Committee Conference Call on Thursday, August 9, 2018

Meeting time: August 9, 2018, 2:00-3:30 PM Eastern Time

Call-in number: (202) 991-0477

Conference code: **Ex. 6**

[NOTE: Regional call-in numbers listed at end of the agenda]

Agenda

- 2:00 - 2:05 Welcome and roll call – Michael Ege (TCEQ)
- 2:05 - 2:10 Review and approval of last conference call meeting notes – Michael Ege (TCEQ) (attach. 02)
- 2:10 - 2:40 Oil & Gas Subcommittee: 2016 Emissions Modeling Platform Update – Tom Moore (WRAP) and Jeff Vukovich (EPA)
- Review of Monday July 9th call
 - Projecting oil and gas emissions to 2023 and 2026
 - Texas point source emission trends – Michael Ege (TCEQ) (attach. 03)
 - Next call is Monday August 13th
 - Agendas and minutes for calls can be found at:
<http://views.cira.colostate.edu/wiki/wiki/9180>
- 2:40 – 2:50 EPA Greenhouse Gas Inventory updates under consideration for the 2019 GHG Inventory – Melissa Weitz (EPA)
- Website for Stakeholder Process for Natural Gas and Petroleum Systems in the 1990-2017 GHG Inventory:
<https://www.epa.gov/ghgemissions/stakeholder-process-natural-gas-and-petroleum-systems-1990-2017-inventory>
 - This site includes slides summarizing updates under consideration for the 1990-2017 GHG Inventory (to be published in 2019), and memos containing details on those updates and seeking stakeholder feedback.
- 2:50 – 3:05 Recap of the July 18th Oil & Gas 101 webinar – Julie McDill (MARAMA) and Mike Pring (ERG)
- 3:05 – 3:20 Additional analysis of fugitive piping component counts developed from EPA GHGRP data – Michael Ege (TCEQ) (attach. 04)
- 3:20 - 3:30 Information & Action Items – Michael Ege (TCEQ)
- Summary of latest content added to the Oil & Gas Emissions Information Repository - Rodger Ames (CIRA)
<http://vibe.cira.colostate.edu/ogec/home.htm>
 - Action Items

Next call: Thursday, September 13, 2018, 2:00-3:30 PM Eastern Time;
same call in number and confirmation number – Michael Ege (TCEQ)

Please let me know if you have questions or additional topics for this call (or future calls).

Michael Ege
Texas Commission on Environmental Quality (TCEQ)

Ex. 6

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Washington DC:

Ex. 6

EPA Region 1

EPA Region 2

EPA Region 3

EPA Region 4

EPA Region 5

EPA Region 6

EPA Region 7

EPA Region 8

EPA Region 9

Ex. 6

EPA Region 10 (Seattle)

Ex. 6

EPA RTP (Raleigh):

Ex. 6

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Ex. 6

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MINUTES

Subject: Minutes for National Oil and Gas Committee Conference Call on Thursday, April 12, 2018

Meeting time: June 14, 2018, 2:00-3:30 Eastern Time

Call-in number: (202) 991-0477

Confirmation number: **Ex. 6**

Agenda

2:00 - 2:05 Welcome and roll call – Michael Ege (TCEQ)

States:

R2:

R3: VA, Allegheny County Health Department

R4:

R5: LADCO, MI, OH

R6: NM, OK, TX

R7:

R8: CO, MT, WY

R9:

R10:

RPOs:

Tom Moore, WRAP/WESTAR

EPA:

Jennifer Snyder (OAQPS)

Jeffrey Vukovich (OAQPS)

Cindy Beeler (R8)

Contractors:

Regi Oommen (ERG)

Amnon Bar-Ilan and John Grant (Ramboll-Environ)

Rodger Ames (Colorado State – CIRA)

Mark Gibbs (Aether-UK)

2:05 - 2:10 Review and approval of last conference call – Michael Ege (attach. 02)

The May meeting notes were approved.

2:10 – 2:30 Oil & Gas Subcommittee: 2016 Emissions Modeling Platform Update – Tom Moore (WRAP) and Jeff Vukovich (EPA)

- Review of Monday June 11th call
- Next call is Monday July 9th

- Agendas and minutes for calls can be found at:
<http://views.cira.colostate.edu/wiki/wiki/9180>

Tom Moore and Jeff Vukovich provided an overview of the June 11th call of the Oil & Gas Subcommittee. The call dealt mostly with point source oil and gas emissions, and how to divide those sources between upstream and midstream sources. It was recommended to look at NAICS-SCC combinations to see if that would work.

2:30 – 2:50 Planned updates to the EPA Oil and Gas tool – Mike Pring (ERG) and Jennifer Snyder (EPA)

Already completed:

- Added CBM dewatering pumps – coal bed methane
- Updated county level temperature data – 2017 data
- Updated FIPS codes

In Progress:

- PM Augmentation updates
- Nonroad engine EF updates (for drill rigs and hydraulic fracturing fracking engines; others need data inputs) – compressor engine NSPS requirements something to think about for the future
- Vapor Recovery Unit as a control (data in GHGRP, and new data for WV based on ORD/ERG project) – for storage tanks

Further Plans (budget pending)

- HPDI refresh (fall of 2018) – 2017 activity data
- GHGRP basin factor updates (fall of 2018) – once 2017 GHGRP data is available
- SCC updates as needed – produced water currently under 1 SCC, can break it out to gas well vs oil well vs CBM well
- % electric addition to compressors
- Update EF for conventional oil well completions – currently 0; EPA has a value for conventional oil well completions
- Tribal activity separation
- Revise SCCs unconventional and conventional
- Abandoned wells – may be possible to add for 2017 based on GHGI methodology
- Updates to be consistent with SPECIATE (some WY profiles, right now)

Tom Moore asked if there was any way to parse out tribal activity? Mike Pring – yes, can use GIS overlay to figure out the location of individual wells, so could be done. Tom Moore – might consider setting up a meeting with the states with experience working with tribal (New Mexico, Wyoming, Oklahoma, etc.)

Michael Ege asked if ERG currently has any 2016 or 2017 data from HPDI? Mike Pring – don't currently have any, that would come from the HPDI refresh this fall.

2:50 – 3:10 Recap of the Emission Inventory Training Workshop on May 15-17 – Jennifer Snyder (EPA)

Jennifer Snyder gave a recap of the Workshop. She indicated that some of the training sessions were recorded, and will be posted to the EPA website. There was a half day training for oil and gas, similar to the training at El conference last year. Oil and gas 101 – went over the source types in the tool. Updates for the 2017 tool – similar to the list Mike Pring went over above; also discussed how EPA uses the data states provide. EPA asks states to provide their updates to the tool, and not just the updated emissions. MARAMA suggested having a webinar on the oil and gas 101 in the next few months; will be recorded, and posted to repository. Next conference will be held in the spring of 2019, and will be another chance to get training on the EPA tool. Did have a few new states who hadn't used the tool before, and hopefully they will provide updates for their states.

3:10 – 3:20 Abandoned wells – Joe Mangino (EPA)

Joe Mangino asked states if they had any additional information to share on abandoned wells.

Michael Ege indicated that for Texas, the Texas Railroad Commission numbers are very low for abandoned/orphaned wells. Those are only the wells they know about that were previously permitted and then abandoned. So he expects the numbers to be a lot bigger than what the RRC reports.

Darla Potter from Wyoming indicated that the Wyoming Conservation Commission has a good handle on the number of orphaned/abandoned wells, and aggressively monitors them. So she thinks the numbers from them are good.

3:20 - 3:30 Information & Action Items – Michael Ege (TCEQ)

- Summary of latest content added to the Oil & Gas Emissions Information Repository - Rodger Ames (CIRA)
(<http://vibe.cira.colostate.edu/ogec/home.htm>)
- Action Items
- RFF webinar “**What Research Says on Key Fracking Debate Issues**” available at: <http://www.rff.org/events/event/2018-04/what-research-says-key-fracking-debate-issues> . There are a series of 6 issue briefs covering climate change, health, earthquakes, water quality, local governments, and the economy.

Next call: Thursday, July 12, 2018, 2:00-3:30 PM Eastern Time;
same call in number and confirmation number – Michael Ege (TCEQ)

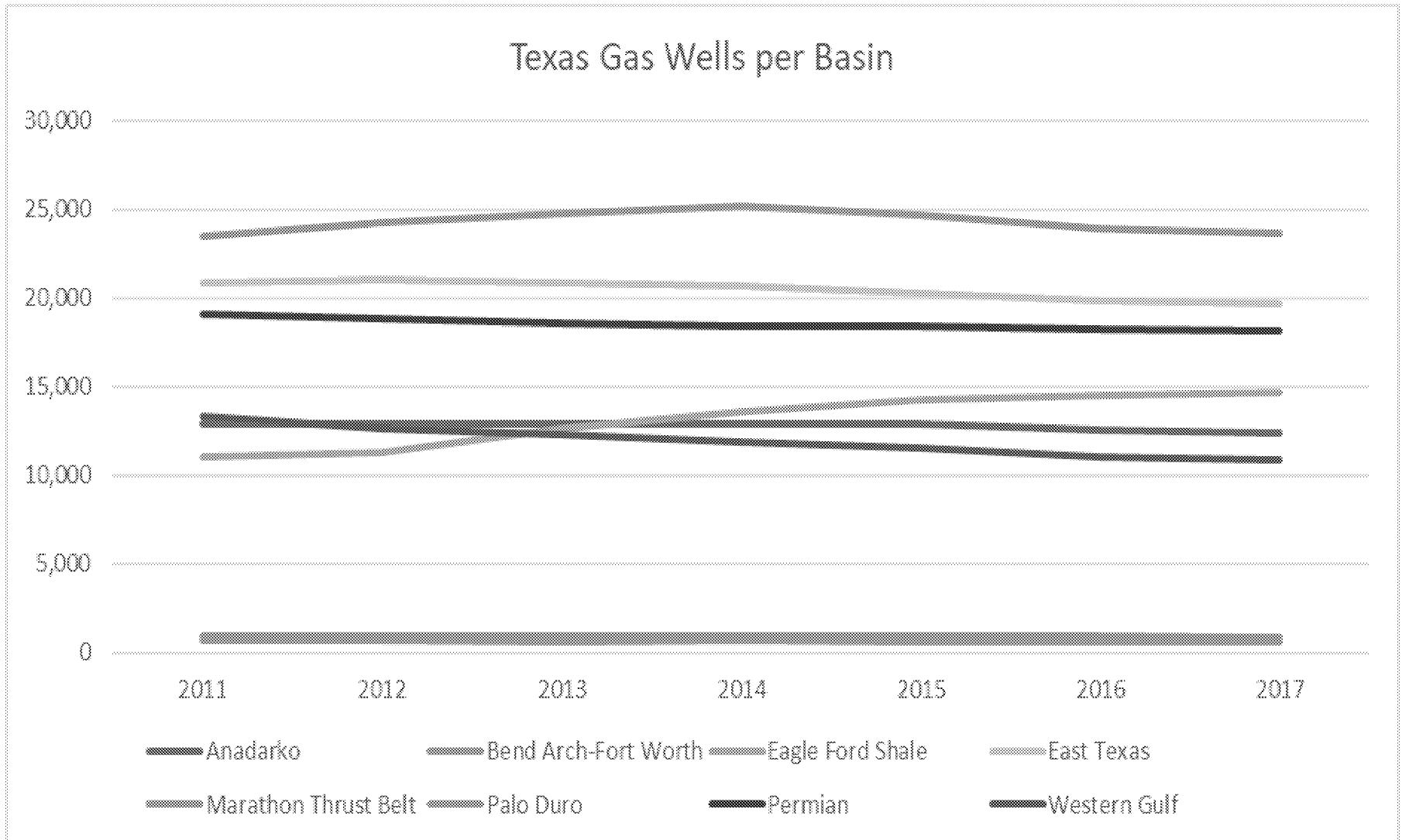


Graphing Oil and Gas Activity in Texas

- Graphed data from 2011 through 2017
- Looked at well counts
 - Gas wells
 - Oil wells
- Looked at point source emissions
 - NO_x
 - VOC
- Summed the data for each of the eight geologic areas of Texas

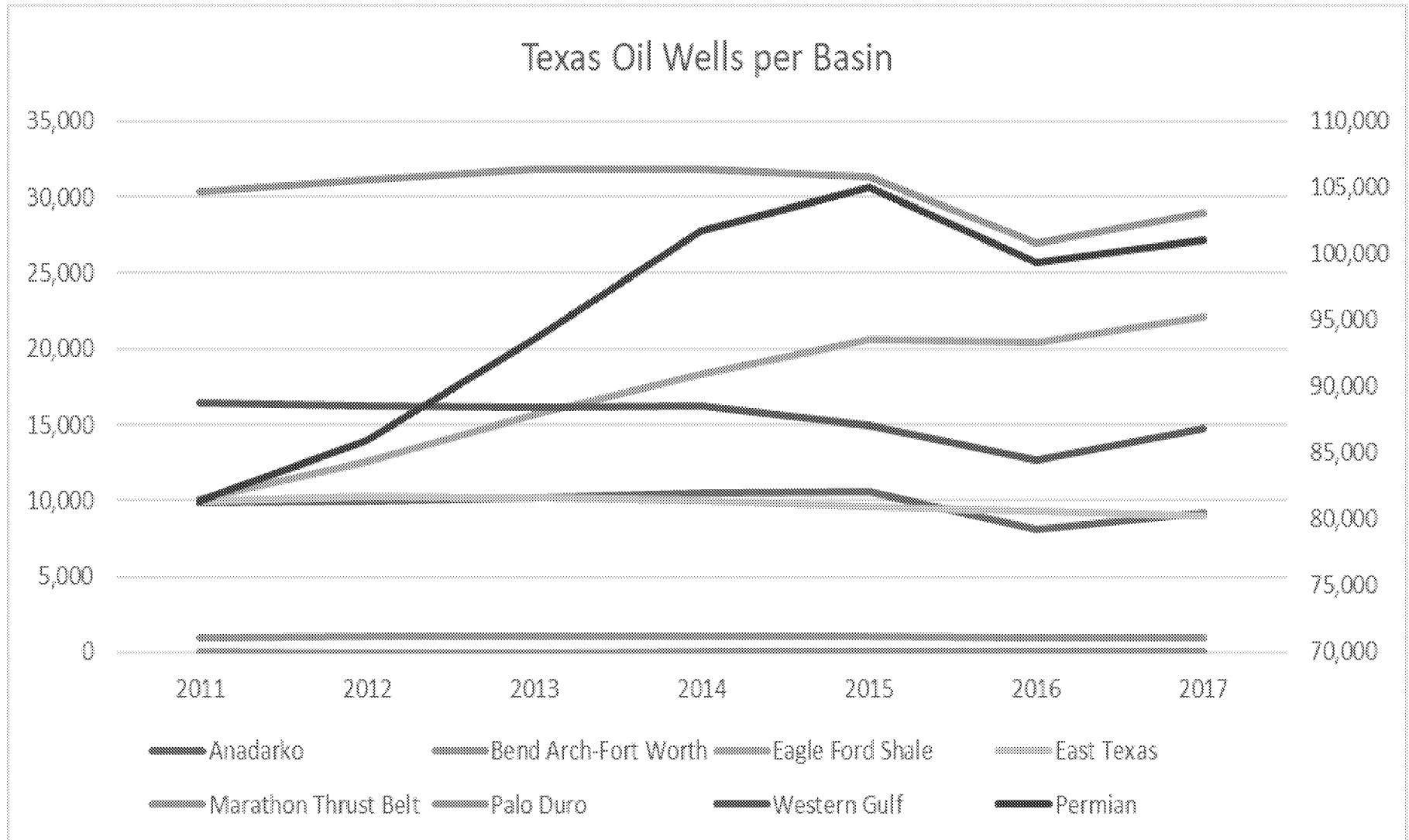


Texas gas wells





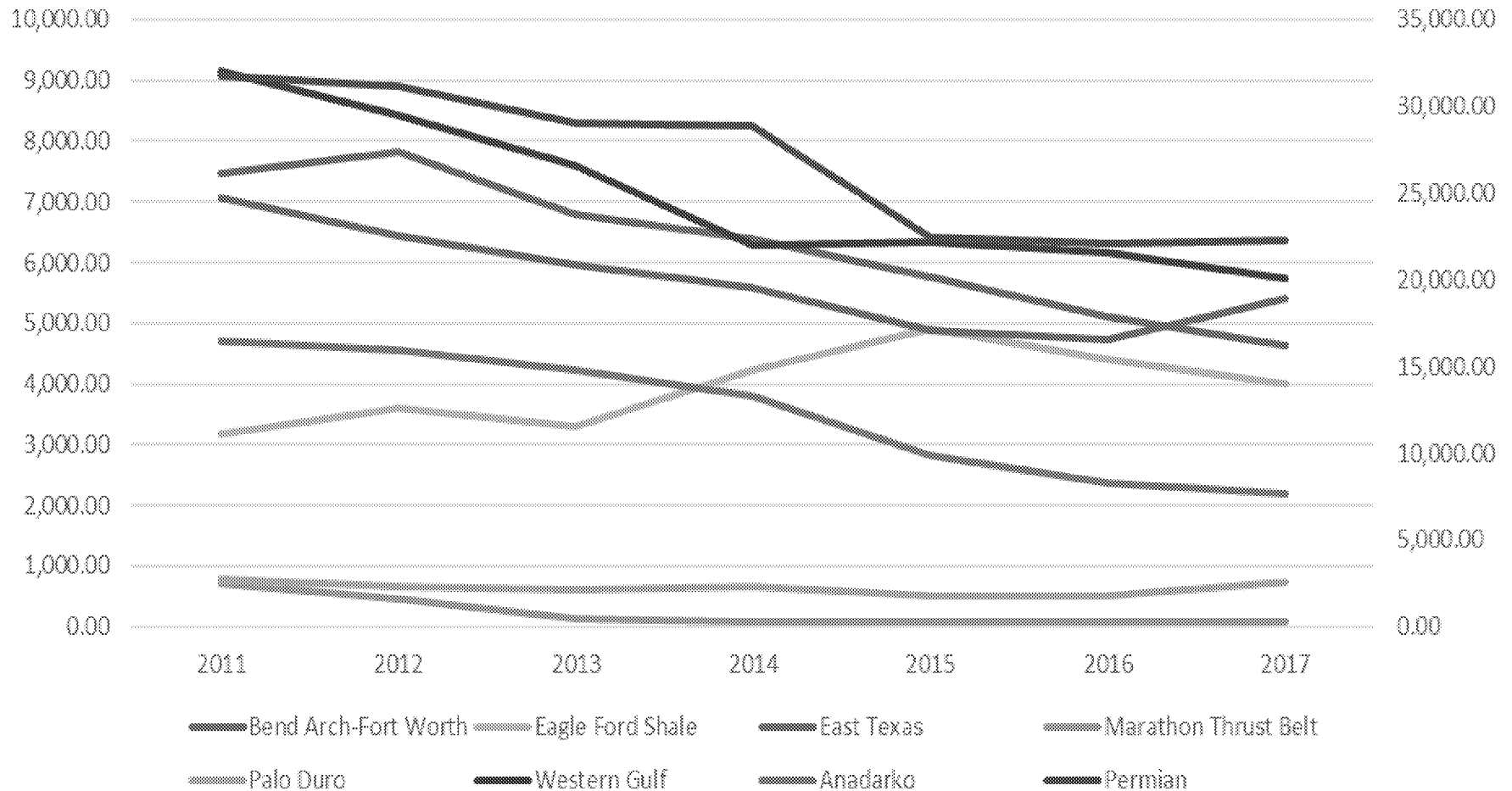
Texas oil wells





Texas Point Source NOx emissions

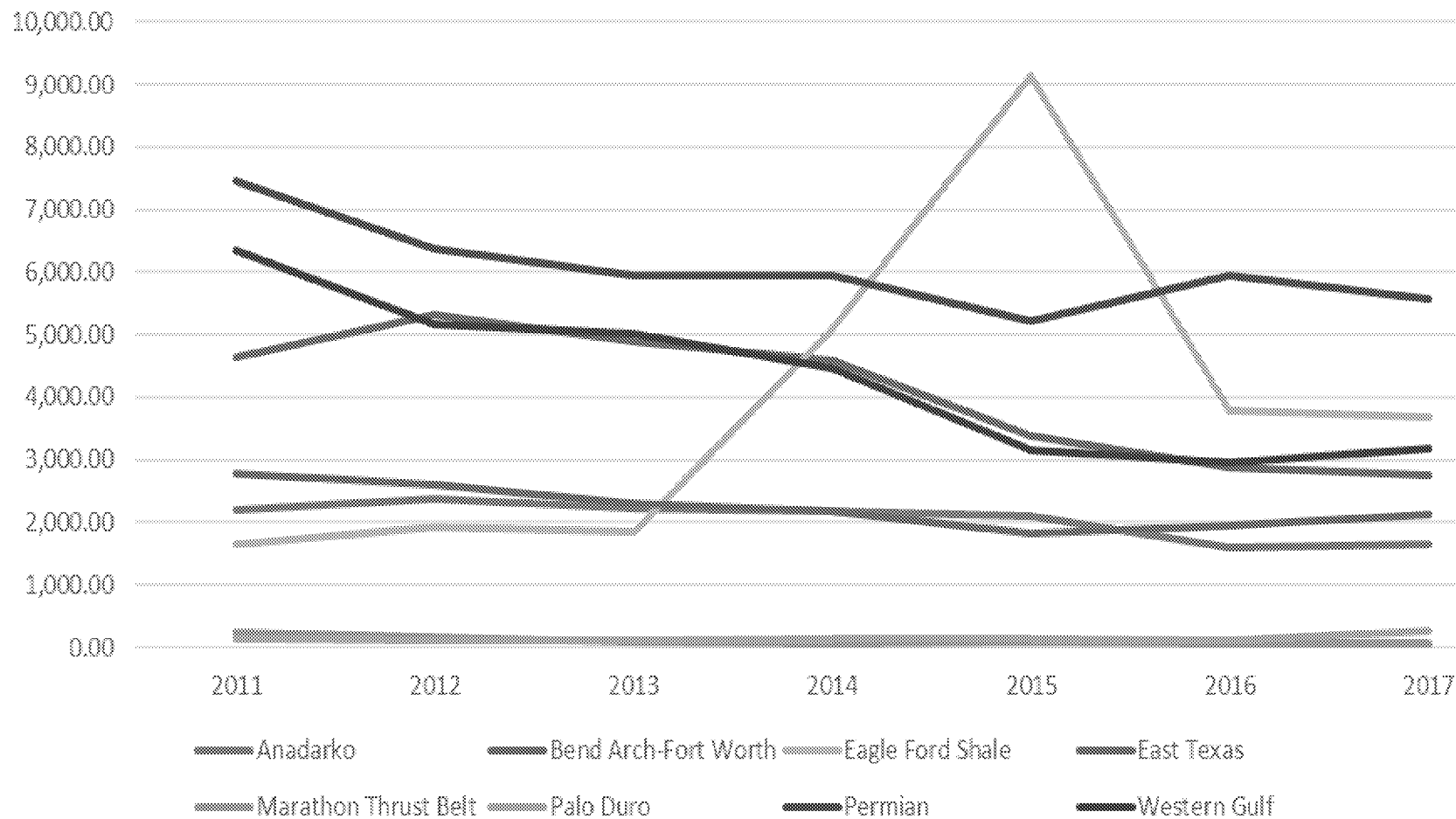
Texas Point Source Oil and Gas NOx emissions (tpy)





Texas Point Source VOC emissions

Texas Point Source Oil and Gas VOC emissions (tpy)





Observations

- Gas wells
 - Eagle Ford Shale trending up
 - All other basins steady or slightly decreasing
- Oil wells
 - Permian Basin and Eagle Ford Shale have been increasing
 - Other basins steady or decreasing until an uptick in 2017
- NOx emissions
 - Eagle Ford Shale increasing until 2015, then decreasing
 - All other basins gradually decreasing
- VOC emissions
 - Eagle Ford Shale increasing until 2015, then decreasing
 - All other basins steady or slightly decreasing

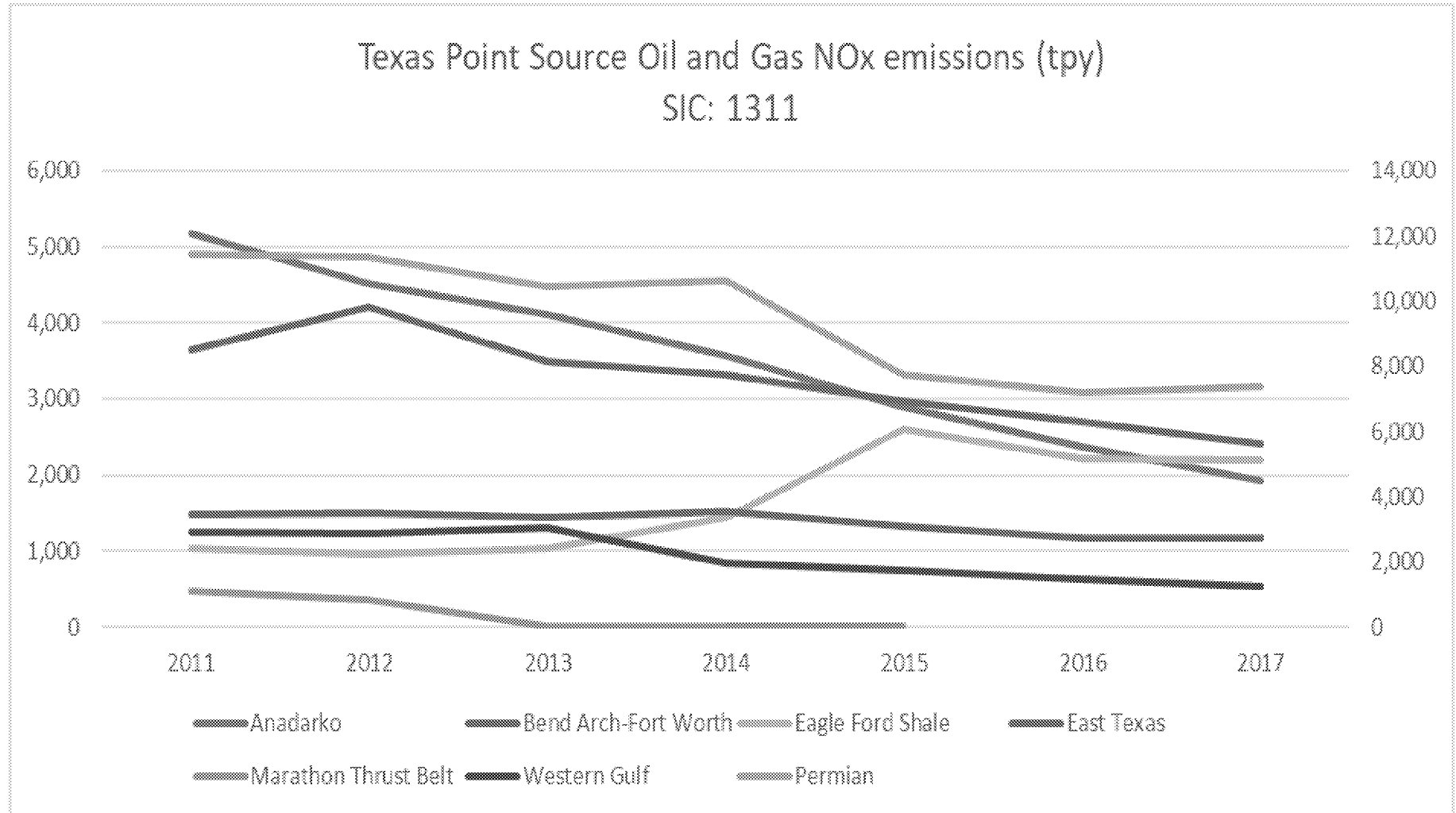


Texas Point Source NOx emissions

- Tried to divide the emissions between upstream versus midstream
- Graphed the point source emissions by SIC code by basin
 - 1311: Crude Petroleum and Natural Gas Extraction (upstream)
 - 1321: Natural Gas Liquids Production (upstream?)
 - 4922: Natural Gas Transmission (midstream)



Texas Point Source NOx emissions

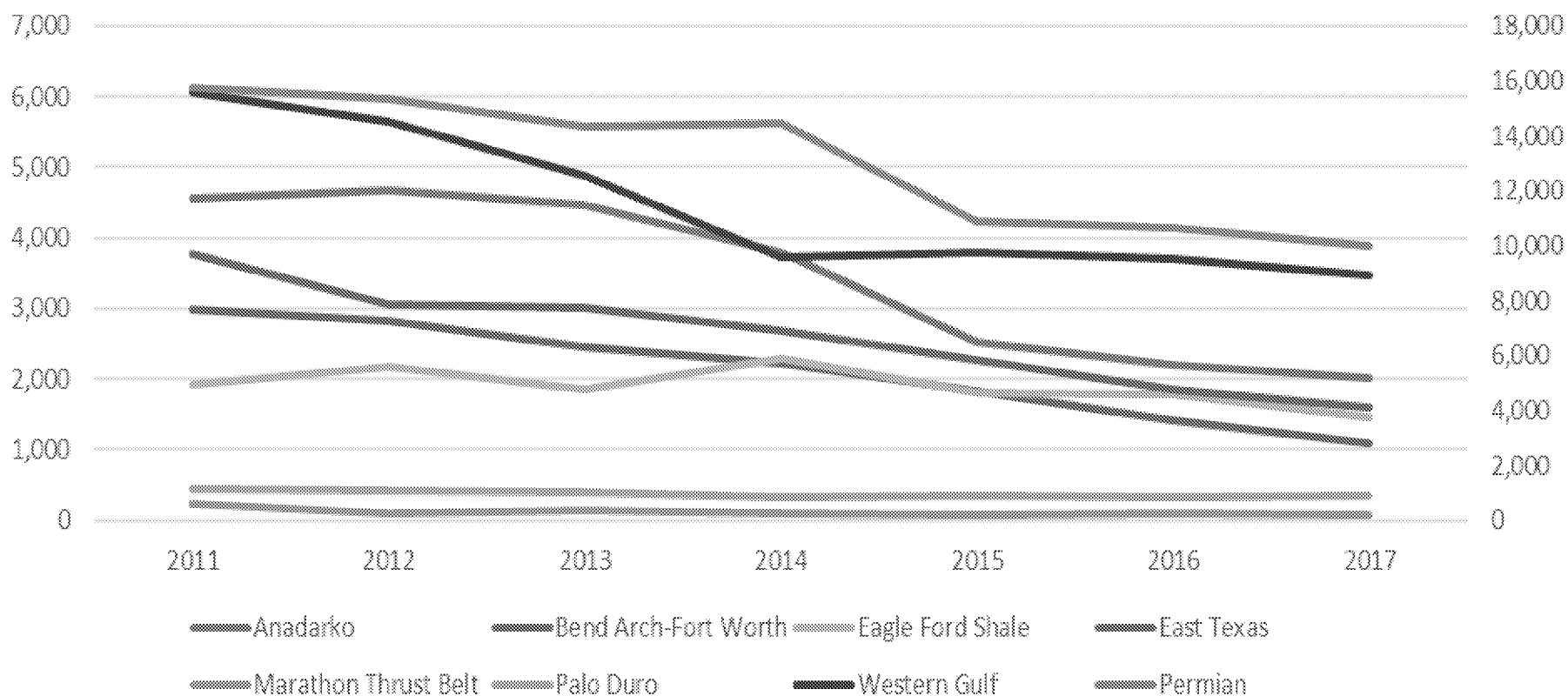




Texas Point Source NOx emissions

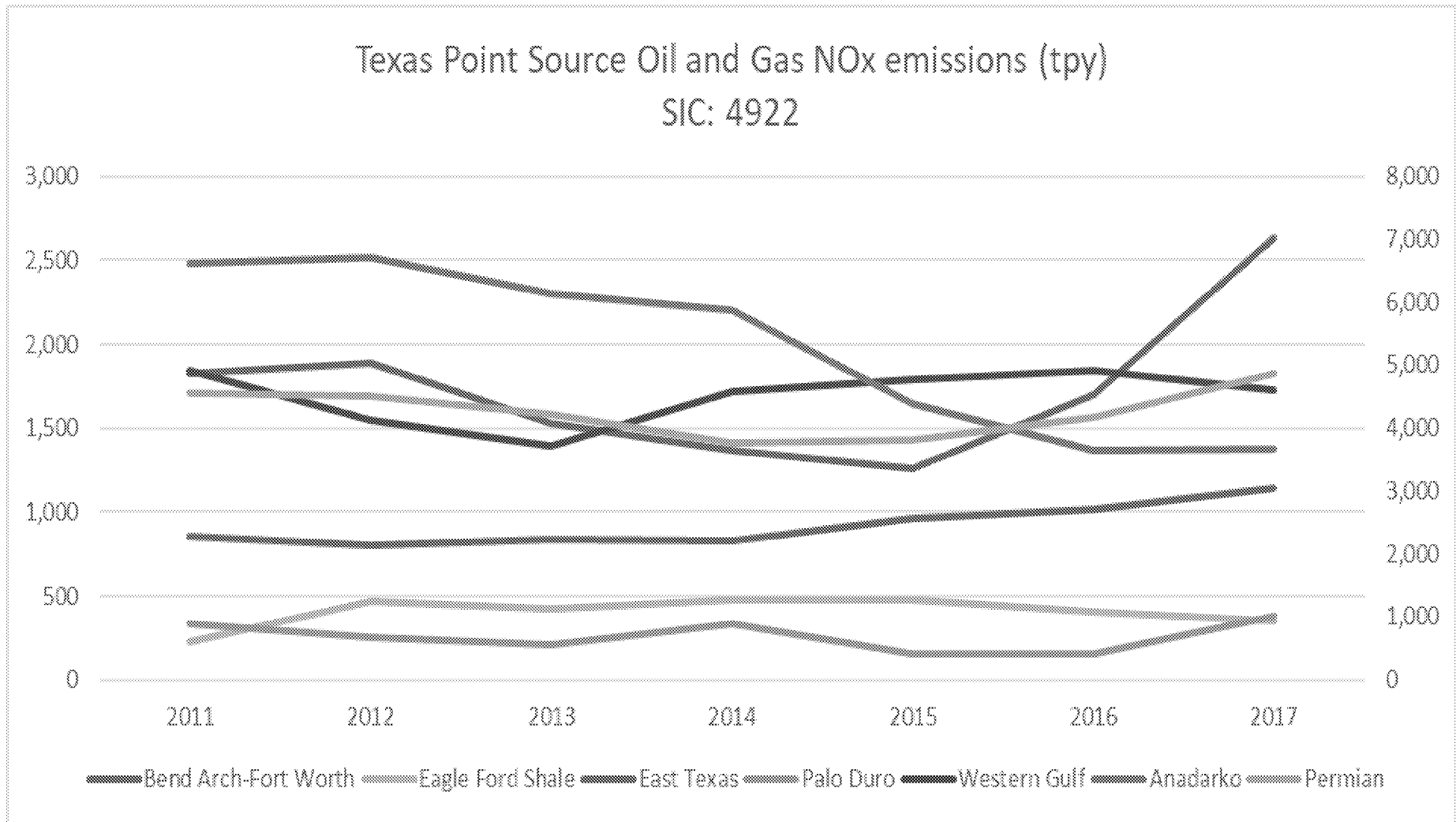
Texas Point Source Oil and Gas NOx emissions (tpy)

SIC: 1321





Texas Point Source NOx emissions





Observations

- Emissions from SIC Codes 1311 and 1321 are steady or decreasing for most basins
- Emissions from SIC Code 4922 have been increasing over the past few years for many basins
- Future emission projections should probably be handled differently for these SIC Codes



Additional analysis of fugitive piping component counts developed from EPA GHGRP data

Michael Ege
Air Quality Division
Texas Commission on Environmental Quality (TCEQ)

National Oil and Gas Committee
August 9, 2018



Overview

- Updated piping component fugitive counts per well were developed using 2016 EPA Greenhouse Gas Reporting Program data
- Discussed the work during May's call
- Updates since that time:
 - Developed counts for all component types
 - Added separate tabs in excel spreadsheet for each service type
 - Gas
 - Light oil
 - Heavy oil
 - For gas components, graphed % connectors versus % flanges



Updated Component Counts developed for all Components

- Previously had developed updated component counts for the components with the most data
- Went back and developed updated component counts for all types of components with GHGRP data



Added additional Tabs in Excel Spreadsheet

- Previously all of the component counts per well were included on a single spreadsheet tab
- Data was broken into three separate tabs
 - Gas components
 - Light oil components
 - Heavy oil components

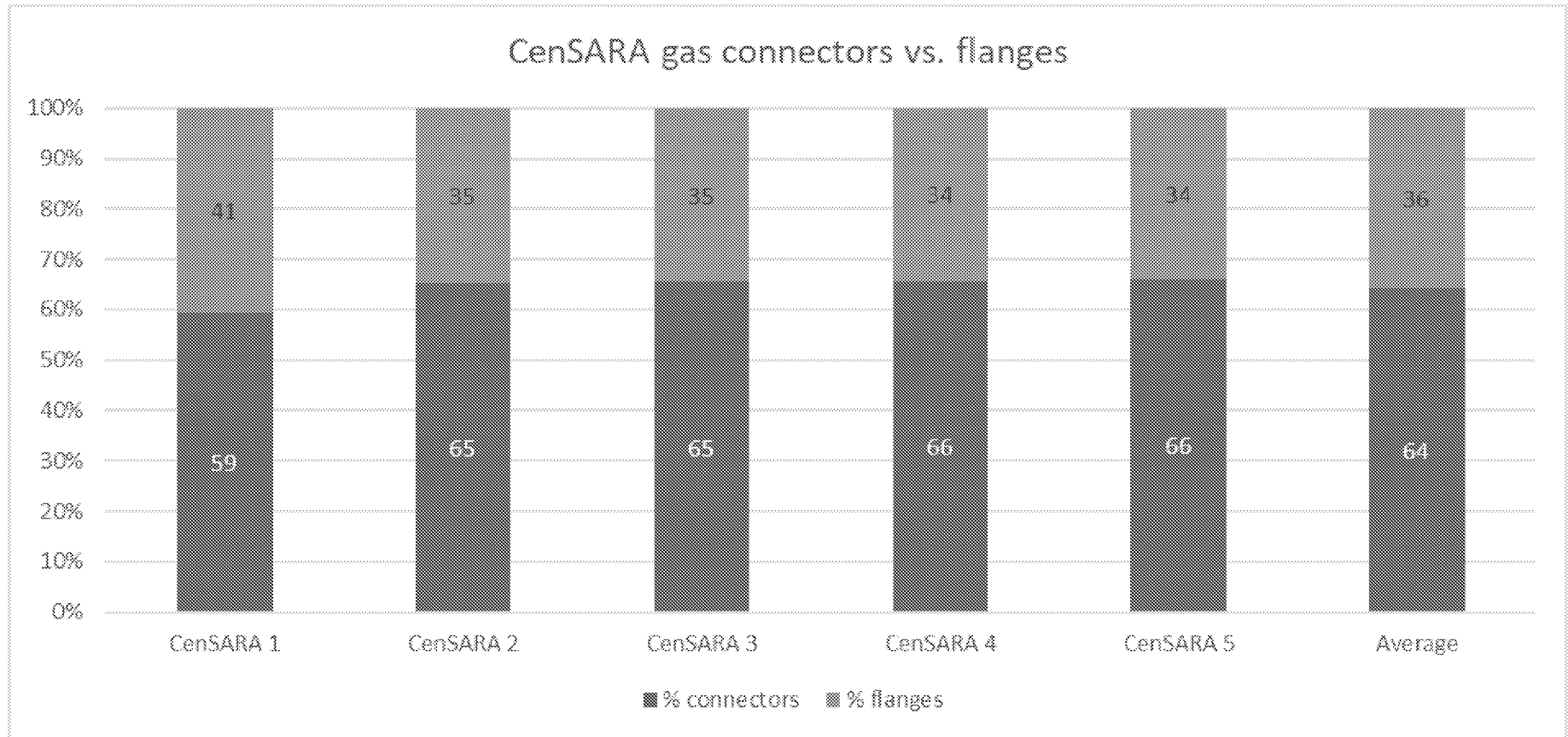


Gas Connectors versus Flanges

- Almost all of the GHGRP data for gas components included counts for only gas connectors, and no gas flanges
- Looked at the counts from the EPA oil and gas emissions estimation tool
- Two main sources of piping component counts
 - CenSARA
 - WRAP
- Graphed % connectors vs. % flanges for each of the two data sets

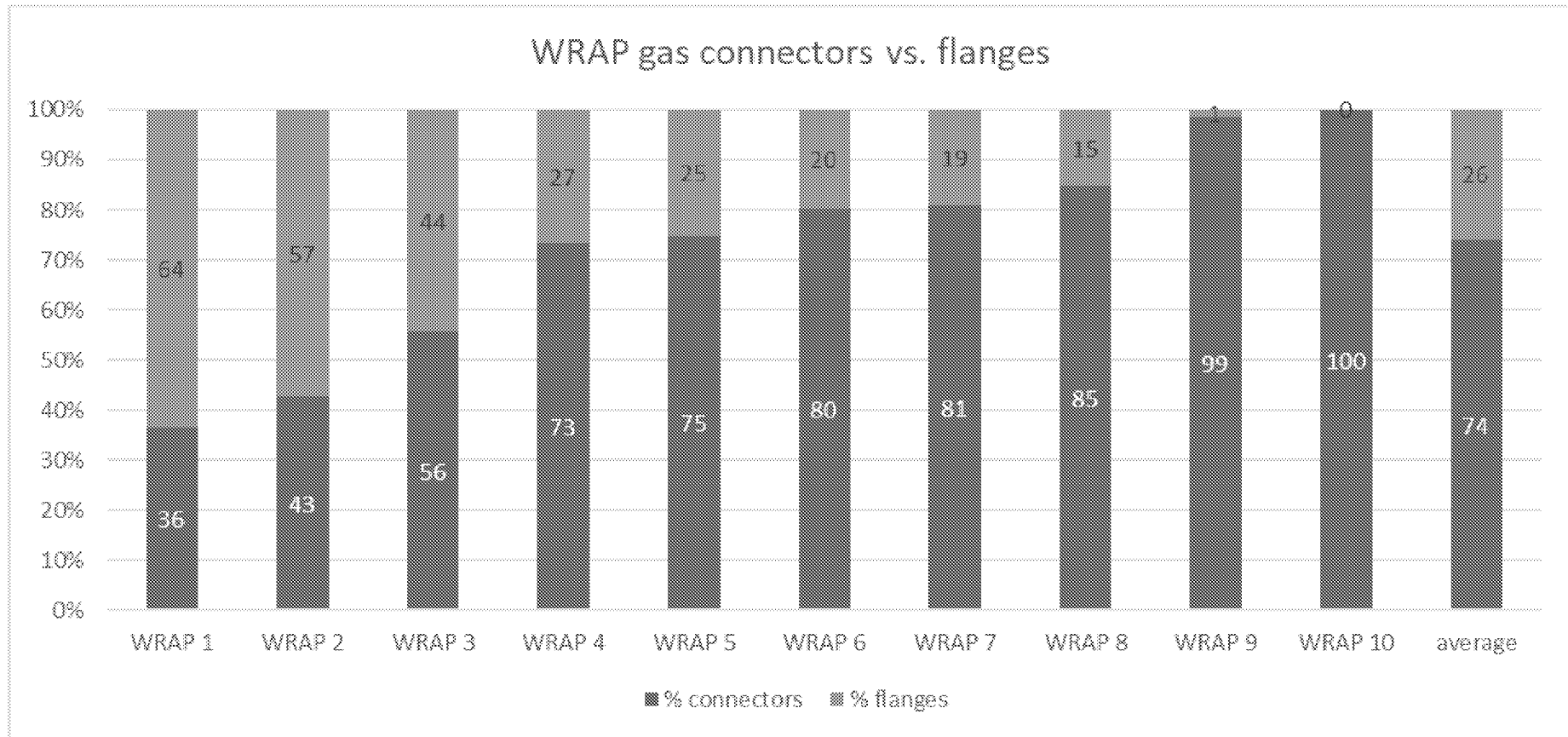


Graph of CenSARA data





Graph of WRAP data





Gas Connectors versus Flanges

- The CenSARA data was fairly consistent
 - % connectors ranged from 59% to 66%
 - Average % connectors was 64%
- The WRAP data was more variable
 - % connectors ranged from 36% to 100%
 - Average % connectors was 74%
- What should we use for the updated component counts?



Questions?

Message

From: Ex. 6 [redacted]@exxonmobil.com]
Sent: 9/17/2018 7:19:41 PM
To: Marsh, Karen [/o=ExchangeLabs/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=03408bea5d5b4030be80fa390ed47026-Marsh, Kare]
Subject: How about Nov 7-8th for OGI Vendor Presentations

I know the Oct 24-25 wouldn't work you said due to OOOOa hearing conflict – how about these dates? I have three vendors ready to bring in their data.....we can do three presentations and then maybe take a lunch break and work on the training plan and f/u questions

Ex. 6

GHG and Air Quality Advisor
SSHE/ Environment & Regulatory
Exxon Mobil Corporation

Ex. 6



Protect Tomorrow.
Today.

Message

From: Marsh, Karen [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=03408BEA5D5B4030BE80FA390ED47026-MARSH, KARE]
Sent: 9/18/2018 6:01:36 PM
To: [REDACTED] **Ex. 6** [REDACTED]@exxonmobil.com]
Subject: RE: How about Nov 7-8th for OGI Vendor Presentations

Let's plan for November 7. I've booked a room from 9-2 (9-12 with vendors, break for lunch, then whatever time needed for the afternoon). If possible, we would like to receive any data the vendors plan to share beforehand so there is an opportunity for us to review that and facilitate a better discussion.

Thanks,
Karen

Karen R. Marsh, PE
US EPA, OAQPS, Sectors Policies and Programs Division
Fuels and Incineration Group
109 TW Alexander Drive, Mail Code E143-05
Research Triangle Park, NC 27711
Direct: (919) 541-1065; email: marsh.karen@epa.gov

From: [REDACTED] **Ex. 6** [REDACTED]@exxonmobil.com]
Sent: Monday, September 17, 2018 3:20 PM
To: Marsh, Karen <Marsh.Karen@epa.gov>
Subject: How about Nov 7-8th for OGI Vendor Presentations

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Ex. 6

GHG and Air Quality Advisor
SSHE/ Environment & Regulatory
Exxon Mobil Corporation

Ex. 6



Protect Tomorrow.
Today.

Message

From: Marnie.Funk@shell.com [Marnie.Funk@shell.com]
Sent: 1/24/2018 8:27:09 PM
To: Tsirigotis, Peter [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d19c179f3ccb4fadb48e3ae85563f132-PTSIRIGO]
Subject: Shell telecon with you and your team to provide input on OOOOa and emerging technologies

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Would it be possible to schedule a telecon with you and appropriate members of your team? I have also left a VM on your AA's phone. I look forward to hearing from you.

Regards,

Marnie Funk

Marnie Funk | Senior Advisor, Government Relations | SHELL | 1050 K Street, NW Suite 700 | Washington, DC 20001 | **Tel:** 202-466-1422 | **Mobile:** 202-341-5631

Message

From: Messina, Edward [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=95521FBF4E34496A879E364FAF7E5AA8-MESSINA, EDWARD]
Sent: 9/27/2017 4:40:50 PM
To: Mia, Marcia [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=6590c44762d64ce28ab3d7a7fbb14673-MMia]; Tsirigotis, Peter [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d19c179f3ccb4fadb48e3ae85563f132-PTSIRIGO]
Subject: FW: Methane article

Any supplemental information that you would like me to provide back to Larry?

Ed Messina
Director
Monitoring, Assistance, and Media Programs Division
U.S. EPA
1200 Pennsylvania Ave., N.W. (MC-2227A)
Washington, DC 20460
p: (202) 564-1191
f: (202) 564-0050

From: Starfield, Lawrence
Sent: Wednesday, September 27, 2017 12:25 PM
To: Kelley, Rosemarie <Kelley.Rosemarie@epa.gov>; Theis, Joseph <Theis.Joseph@epa.gov>; Brooks, Phillip <Brooks.Phillip@epa.gov>; Hindin, David <Hindin.David@epa.gov>; Messina, Edward <Messina.Edward@epa.gov>
Cc: Bodine, Susan <bodine.susan@epa.gov>; Traylor, Patrick <traylor.patrick@epa.gov>
Subject: Methane article

Interesting article on a new technology to reduce methane leaks. FYI.

Larry

METHANE

Exxon finds easy, cost-effective way to stop gas leaks

Mike Lee, E&E News reporter

Published: Tuesday, September 26, 2017

Exxon Mobil Corp. has agreed to cut methane emissions from its U.S. shale facilities. Minale Tattersfield/Flickr

Exxon Mobil Corp.'s plan to reduce its methane emissions grew out of a single tank battery in West Texas and could have a widespread impact on the energy industry.

Exxon, the biggest U.S. oil and gas producer, said yesterday it will use a combination of technologies, along with stepped-up training and leak detection, to reduce the pollution at its production and transportation facilities. The program will be carried out by XTO Energy Inc., the subsidiary that handles Exxon's onshore U.S. operations.

The company hasn't said how much it expects to cut its emissions, but environmental groups said it's a significant announcement given Exxon's size.

"When the nation's largest natural gas producer makes an announcement like this — it obliterates any claim that methane reductions aren't feasible and cost-effective," said Ben Ratner, manager of corporate initiatives for the Environmental Defense Fund.

Exxon has a tangled history on emissions and climate change. The New York attorney general's office is investigating whether the company suppressed internal research showing the risks of greenhouse gas pollution.

Exxon took part in a string of studies EDF conducted in 2013 and 2014 to measure emissions from oil and gas sites.

Methane, the main component of natural gas, traps more heat than carbon dioxide when it's released into the atmosphere. EDF and other environmental groups have said for years that cutting methane emissions from the oil and gas sector is a crucial step in staving off long-term climate change.

In the second half of 2016, the company conducted an experiment at a single tank battery in the Midland Basin, which is part of the larger Permian Basin oil field.

Like a lot of oil field installations, the battery relied on a so-called high bleed pneumatic system that emitted a stream of natural gas to power valves and other control systems. XTO switched the battery to a different system that used an electrically powered compressed air system. The change virtually eliminated the tank battery's emissions, and it cost about the same as the high-bleed system, the company said.

XTO said it plans to retrofit its existing facilities with air-powered systems within three years. And it will use the same type of control systems as it begins developing 250,000 acres it purchased earlier this year in the Permian Basin ([Energywire](#), Jan. 19).

The company is also working with several government agencies and universities, including Stanford University's Natural Gas Initiative, on new leak detection technology.

"All told, we're involved in more than two dozen methane and methane emissions reduction research projects and studies," XTO President Sara Ortwein said in a blog post.

Larry Starfield
Principal Deputy Assistant Administrator
Office of Enforcement and Compliance Assurance
U.S. EPA
Washington, DC

(202) 564-2440 (office)
(202) 564-8179 (direct)
(202) 505-0961 (cell)

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Message

From: Stephen Fotis [scf@vnf.com]
Sent: 4/2/2018 12:11:43 AM
To: Tsirigotis, Peter [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d19c179f3ccb4fadb48e3ae85563f132-PTSIRIGO]
CC: Marnie Funk (Marnie.Funk@shell.com) [Marnie.Funk@shell.com]; dick.francis@shell.com
Subject: RE: Shell Follow-up on State Equivalency
Attachments: Informal Regulatory Mechanisms for Demonstrating State Equivalency.docx

Peter -- I am checking in with you regarding the white paper (attached hereto) that I sent to you last Thursday (March 22) regarding the establishment of an informal administrative mechanism for determining the equivalency of state or local requirements that would apply in lieu of the Federal Subpart OOOOa performance standards. Please let me know if it would be helpful to schedule a time when we can discuss the proposal and answer any questions that you might have. I hope that you had a nice time away from the office and were on vacation with some time to relax.

Best regards,
Stephen

Stephen Fotis
Partner
Van Ness Feldman LLP
scf@vnf.com
(202) 298-1908

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From: Stephen Fotis
Sent: Thursday, March 22, 2018 3:28 PM
To: 'Peter Tsirigotis (tsirigotis.peter@epa.gov)'
Cc: 'Cozzie, David (Cozzie.David@epa.gov)'; 'marsh.karen@epa.gov'; 'thompson.lisa@epa.gov'; 'lassiter.penny@epa.gov'; 'south.peter@epa.gov'
Subject: Shell Follow-up on State Equivalency

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Many thanks,
Stephen

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Message

From: Marnie.Funk@shell.com [Marnie.Funk@shell.com]
Sent: 1/29/2018 5:12:36 PM
To: Tsirigotis, Peter [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d19c179f3ccb4fadb48e3ae85563f132-PTSIRIGO]
Subject: FW: Shell telecon with you and your team to provide input on OOOOa and emerging technologies?

Hi Peter,

Just checking back in on this request. I know your responsibilities have considerably expanded. (Congratulations by the way!) Happy to follow up with someone else on your team if you prefer. Just let me know who.

Thanks,
Marnie

Marnie Funk | Senior Advisor, Government Relations | SHELL | 1050 K Street, NW Suite 700 | Washington, DC 20001 | **Tel:** 202-466-1422 | **Mobile:** 202-341-5631

From: Funk, Marnie SHLOIL-GRA
Sent: Wednesday, January 24, 2018 3:27 PM
To: tsirigotis.peter@epa.gov
Subject: Shell telecon with you and your team to provide input on OOOOa and emerging technologies

Hi Peter,

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Message

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Sent: 4/4/2018 4:24:59 PM
To: Stephen Fotis [scf@vnf.com]
CC: Marnie Funk (Marnie.Funk@shell.com) [Marnie.Funk@shell.com]; dick.francis@shell.com
Subject: RE: Shell Follow-up on State Equivalency

Hi Stephen. Thank you for reaching out and I apologize for not responding earlier. We reviewed the white paper and found it very helpful as we reconsider the AMEL provisions for state equivalency determinations. At this time, we don't have any further questions on the white paper, but we look forward to continuing to engage with you during the public review of the proposed reconsideration later this summer.

Ps. Like most vacations go, I had a great time that now seems like a far too distant memory... 😊

From: Stephen Fotis [mailto:scf@vnf.com]
Sent: Sunday, April 01, 2018 8:12 PM
To: Tsirigotis, Peter <Tsirigotis.Peter@epa.gov>
Cc: Marnie Funk (Marnie.Funk@shell.com) <Marnie.Funk@shell.com>; dick.francis@shell.com
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Cc: 'Cozzie, David (Cozzie.David@epa.gov)'; 'marsh.karen@epa.gov'; 'thompson.lisa@epa.gov'; 'lassiter.penny@epa.gov'; 'south.peter@epa.gov'
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Sent: 1/29/2018 5:28:03 PM
To: Marnie.Funk@shell.com
CC: Lassiter, Penny [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c3f6bf2e31d4492b9658b7c5c1583c09-PLASSITE]
Subject: Re: Shell telecon with you and your team to provide input on OOOOa and emerging technologies?

Hi Marnie. Thank you for reaching out. I'm ccing Penny Lassiter who is the acting director in SPPD and can follow up with you quicker and get spun up on landfill issues.

Ps. Always feel free to reach out to me. :)

On Jan 29, 2018, at 12:13 PM, "Marnie.Funk@shell.com" <Marnie.Funk@shell.com> wrote:

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